

FILE NOTATIONS

Entered in NID File ✓
 Entered On S R Sheet _____
 Location Map Pinned _____
 Card Indexed ✓
 I W R for State or Fee Land _____

Checked by Chief _____
 Copy NID to Field Office _____
 Approval Letter _____
 Disapproval Letter _____

COMPLETION DATA:

Date Well Completed 3/22/77
 OW _____ WW _____ TA _____
 GW _____ OS _____ PA ✓

Location Inspected _____
 Bond released _____
 State of Fee Land _____

LOGS FILED

Driller's Log ✓
 Electric Logs (No.) _____

E _____ I _____ E-I _____ GR _____ GR-N _____ Micro _____
 Lat _____ Mi-L _____ Sonic _____ Others _____

QUINTANA PETROLEUM CORPORATION

601 JEFFERSON STREET-CULLEN CENTER

HOUSTON, TEXAS

March 9, 1977

PLEASE ADDRESS CORRESPONDENCE TO:

P. O. BOX 3331

HOUSTON, TEXAS 77001

RE: Application for Permit to Drill
Federal Lease No. U-2708
Quintana - Federal Well No. 18-1
Section 18, T3N, R10E, SLB&M
Summit County, Utah

United States Department of the Interior
Geological Survey
8416 Federal Building
125 South State Street
Salt Lake City, Utah

Attention: Mr. E. W. Gynn, District Engineer

Gentlemen:

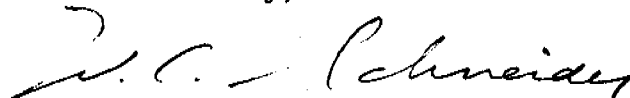
In connection with the drilling of the subject well enclosed in triplicate are the following:

1. Application for Permit to Drill.
2. U.S.G.S. Ten Point Drilling Procedure Questionnaire.
3. Survey Plat.
4. Twelve Point Surface Use and Operations Plan.

The above captioned drilling location is on State-Owned surface lands, and the State of Utah, Division of Oil, Gas and Mining, is being notified of our application by a copy of this letter with attachments.

The Federal Lease No. U-2708 expires April 30, 1977, therefore we plan to commence drilling operations prior to this date. Please let us know if you need additional information.

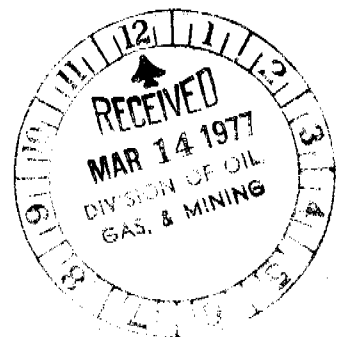
Yours truly,



W. A. Schneider

WAS/eh
attach.

cc: State of Utah, Natural Resources
Division of Oil, Gas and Mining
Salt Lake City, Utah 84116
Attn: Mr. P. D. Driscoll



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☐GAS
WELL ☒

OTHER

SINGLE
ZONE ☐MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Quintana Petroleum Corporation

3. ADDRESS OF OPERATOR

P. O. Box 3331, Houston, Texas 77001

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)

At surface

1240' FWL and 1758' FSL, Sec. 18, T3N, R10E, SLB&M

At proposed prod. zone

Same as surface location. *SW*

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

N/A

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

1240'

16. NO. OF ACRES IN LEASE

335.59

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40 acres

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.First well
on lease

19. PROPOSED DEPTH

2000' *Cretaceous*

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

Ground Level (ungraded) = 7828'/MSL

22. APPROX. DATE WORK WILL START*

April 27, 1977

23.

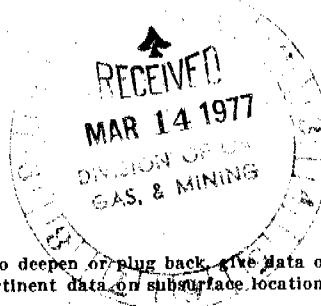
PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
15"	13-3/8"	48#	100'	To surface
6-1/2"	4-1/2"	9.5#	2,000'	480 cubic feet

Purpose: To drill a 2000' vertical hole to evaluate Cretaceous gas potential.

A drilling contractor has not been selected at this time. Unless subsequent information indicates otherwise, we plan to have a rotating head or annulus-type preventer and diverter line installed while drilling the 6-1/2" hole. If run, the 4-1/2" production casing will be cemented to surface. All significant Hydrocarbon shows will be evaluated with logs and/or drill stem tests and cores.

Additional information attached.



IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

W. A. Schneider
W. A. Schneider

TITLE

Petroleum Engineer

DATE

March 9, 1977

(This space for Federal or State office use)

PERMIT NO.

43-043-30046

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

U.S. GEOLOGICAL SURVEY, CONSERVATION DIVISION

FROM: DISTRICT GEOLOGIST, SALT LAKE CITY, UTAH

TO: DISTRICT ENGINEER, SALT LAKE CITY, UTAH

Well	Location	Lease No.
Quintana Petroleum #18-1	1240' FWL, 1758' FSL, Sec. 18, T3N, R10E, SLM, Summit Co., Utah, Gr. El. 7828'	U-2708
<p>1. Stratigraphy and Potential Oil and Gas Horizons. Well will spud in alluvium or Tertiary gravels overlying the Wasatch Formation and will test the Wasatch for gas potential to a proposed T.D. of 2000'. Most recent information from Quintana Petroleum Corp. #30-1 (Gr. El. 7974'), sec. 30, same twp., reported the following tops: Alluvium (surface); Wasatch 83'; Lower Wasatch 1880' (top) 2014' (bottom ?); T.D. 2014'?. Abd 4-9-77.</p> <p>2. Fresh Water Sands. No wells in the vicinity of this test. Wasatch Fm. may contain fresh water sands.</p> <p>3. Other Mineral Bearing Formations. (Coal, Oil Shale, Potash, Etc.) Prospectively valuable for coal, however, the well should not penetrate to depths where coal is found.</p> <p>4. Possible Lost Circulation Zones. Unknown</p> <p>5. Other Horizons Which May Need Special Mud, Casing, or Cementing Programs. Unknown. Protect fresh water aquifers penetrated.</p> <p>6. Possible Abnormal Pressure Zones and Temperature Gradients. Unknown</p> <p>7. Competency of Beds at Proposed Casing Setting Points. Probably adequate. Surface alluvium will be cased off.</p> <p>8. Additional Logs or Samples Needed. none</p> <p>9. References and Remarks</p>		
Date: 4-20-77		Signed: Thomas R. Arsenault

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U-2708
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A
2. NAME OF OPERATOR Quintana Petroleum Corporation		7. UNIT AGREEMENT NAME N/A
3. ADDRESS OF OPERATOR P. O. Box 3331, Houston, Texas 77001		8. FARM OR LEASE NAME Quintana - Federal
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* 1240' FWL and 1758' FSL, Sec. 18, T3N, R10E, SLB&M At proposed prod. zone Same as surface location.		9. WELL NO. 18-1
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* N/A		10. FIELD AND POOL, OR WILDCAT Wildcat
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 1240'		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 18, T3N, R10E, SLB&M
16. NO. OF ACRES IN LEASE 335.59		12. COUNTY OR PARISH Summit
17. NO. OF ACRES ASSIGNED TO THIS WELL 40 acres		13. STATE Utah
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. First well on lease		20. ROTARY OR CABLE TOOLS Rotary
21. ELEVATIONS (Show whether DF, RT, GR, etc.) Ground Level (ungraded) = 7828'/MSL		22. APPROX. DATE WORK WILL START* April 27, 1977

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
15"	13-3/8"	48#	100' / 150'	To surface
6-1/2"	4-1/2"	9.5#	2,000' / 3000'	480 cubic feet

Approval notice - Living Oil Res - Mining - Utah
Purpose: To drill a 2000' vertical hole to evaluate Cretaceous gas potential.

A drilling contractor has not been selected at this time. Unless subsequent information indicates otherwise, we plan to have a rotating head or annulus-type preventer and diverter line installed while drilling the 6-1/2" hole. If run, the 4-1/2" production casing will be cemented to surface. All significant Hydrocarbon shows will be evaluated with logs and/or drill stem tests and cores.

Additional information attached.

Verbal Arch Clear 4/21/77

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED W. A. Schneider TITLE Petroleum Engineer DATE March 9, 1977
(This space for Federal or State office use)

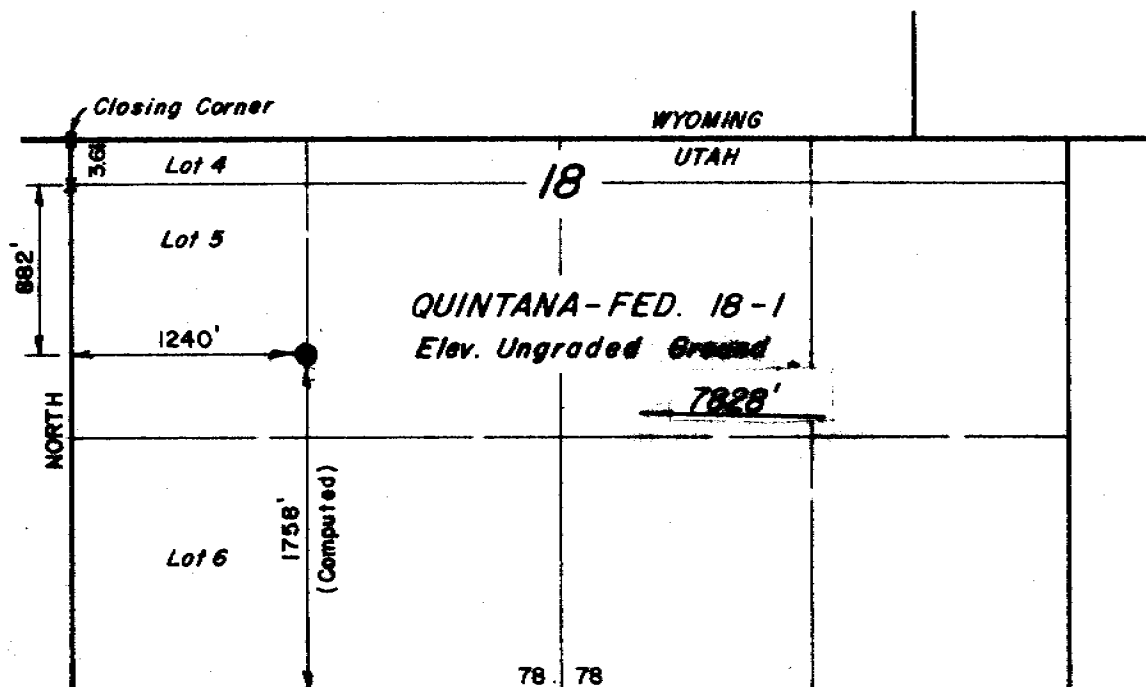
PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY E. E. Egan TITLE DISTRICT ENGINEER DATE APR 21 1977
CONDITIONS OF APPROVAL, IF ANY:

T3N, R10E, S.L.B.&M.

PROJECT

QUINTANA PETROLEUM CORPORATION

Well location, **QUINTANA - FED. 18-1**, located as shown in the SW1/4 Section 18, T3N, R10E, S.L.B.&M. Summit County, Utah.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Gene Stewart
REGISTERED LAND SURVEYOR
REGISTRATION NO. 3154
STATE OF UTAH

X = Section Corners Located

UINTAH ENGINEERING & LAND SURVEYING
P.O. BOX Q - 110 EAST - FIRST SOUTH
VERNAL, UTAH - 84078

SCALE 1" = 1000'	DATE 3/1/77
PARTY M.S. S.S. J.H. BFW	REFERENCES GLO Plat
WEATHER Cold	FILE QUINTANA

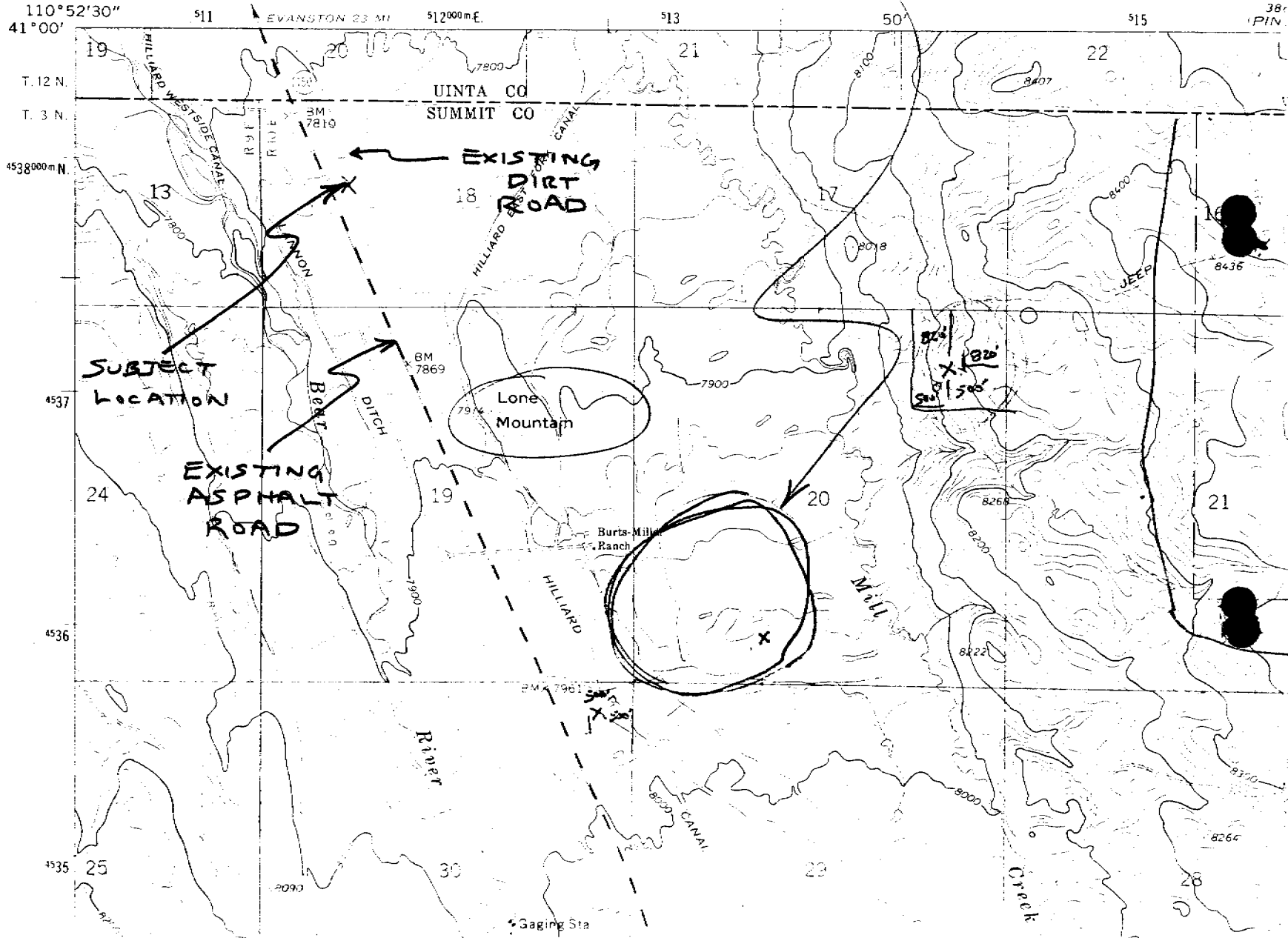
3866 III SW
(MYERS RESERVOIR)

QUINTANA - LONE
MOUNTAIN PROSPECT

APPROXIMATE
LOCATION

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

1" = 2000'
DEADMAN MOUNTAIN



QUINTANA PETROLEUM CORPORATION

APPLICATION FOR PERMIT TO DRILL
FEDERAL LEASE No. U-2708
QUINTANA - FEDERAL WELL No. 18-1
SECTION 18, T3N, R10E, SLB&M
SUMMIT COUNTY, UTAH

PROPOSED TOTAL DEPTH - 2000 FEET

1. Surface Formation

The State of Utah Geologic Map shows the surface formation to be the Quaternary Alluvium.

2. Geologic Markers

- a. Base of Tertiary - Top of Cretaceous (Aspen Formation) $\pm 1800'$.
- b. Top of Bear River Formation $\pm 2000'$.

3. Anticipated Hydrocarbons

A potential gas accumulation is anticipated at $\pm 2000'$ in the Bear River Formation.

4. Proposed Casing and Cementing Program

- a. Surface Casing: Approximately 100' of 13-3/8", H-40, 48#/ft., new casing to be cemented to surface in a 15" hole.
- b. Production Casing: Approximately 2000' of 4-1/2", H-40, 9.5#/ft., new casing to be cemented to surface in a 6-1/2" hole.

5. Pressure Control Equipment

Wells drilled previously in the area of the proposed well indicate the subject well can be drilled safely to the proposed total depth of 2000' with no pressure control equipment. As a precautionary measure, however, Quintana plans to install an annular type preventer (Hydril) rated to at least 2000 psi working pressure together with a manifold and diverter line. This system will be tested to insure complete operational capability for diverting any possible trip gas, connection gas or shale gas. Also, if necessary, a rotating head can be installed above the Hydril to divert gas while drilling.

6. Circulating Fluid

The 6-1/2" hole will be drilled to 2000' with water and bentonite. The mud density will be maintained between 8.8 and 9.0 pounds per gallon, and the funnel viscosity will be maintained between 40 and 60 seconds per quart. Adequate barite and lost circulation material will be kept on location to control possible water flows and/or lost circulation zones.

7. Auxiliary Equipment

As a minimum, the following auxiliary equipment will be used:

- a. A kelly cock.
- b. A mud pit level indicator.
- c. A full opening valve on the floor with drill pipe and drill collar connection crossovers.
- d. An inside blowout preventer on the floor with drill pipe and drill collar connection crossovers.

8. Testing, Logging and Coring

- a. Testing - Open hole drill stem tests of significant hydrocarbon shows will be conducted, if necessary, for adequate formation evaluation.
- b. Logging - A lithology log, resistivity log and porosity log will be run at total depth. Other logging services and intermediate logging points will be considered as needed.
- c. Coring - Conventional coring will be considered if needed for adequate formation evaluation.

9. Drilling Hazards

Wells drilled previously in the area of the subject well indicate that no abnormal pressures, abnormal temperatures or hydrogen sulfide will be encountered in the proposed well.

10. Starting and Duration

The subject lease expires on April 30, 1977. Quintana plans to commence continuous operations prior to the expiration date. Drilling operations are expected to take about seven (7) days.

QUINTANA PETROLEUM CORPORATION

12 POINT SURFACE USE PLAN

FOR

WELL LOCATION

QUINTANA FEDERAL 18-1

LOCATED IN

SECTION 18, T3N, R10E SLB&M

SUMMIT COUNTY, UTAH

1. EXISTING ROADS

See attached Topographic Map "A" - to reach the Quintana Petroleum Corp. well location (Quintana Federal 18-1) located in Section 18, T3N, R10E, SLB&M from Evanston, Wyoming.

Proceed south along Wyoming State Highway 89 to the Wyoming - Utah State line and continue on south along Utah State Highway 150 1250' to the existing access ramp. The distances from Evanston, Wyoming to the existing access ramp is 23.6 road miles.

Turn east on the existing access ramp and proceed in an easterly direction off ramp from State Highway 150 3' inside of right-of-way fence to the Quintana Federal 18-1 location in the SW 1/4 of Section 18, T3N, R10E, SLB&M.

2. PLANNED ACCESS ROAD

See attached Topographic Map "B".

The proposed access to Quintana Federal 18-1 is an existing exit ramp from Utah Highway 150, this ramp will be upgraded according to Utah State Regulations.

3. LOCATION OF EXISTING WELLS

As shown on Topographic Map "B", there are no other wells within a one mile radius of the proposed well site. (See location plat for placement of Quintana Petroleum Corp. well location, Quintana Federal 18-1, within this section.)

4. LOCATION OF TANK BATTERIES, PRODUCTION FACILITIES, AND PRODUCTION GATHERING, AND SERVICE LINES

All petroleum production facilities are to be contained within the proposed location site. There are no other Quintana Petroleum Corp. flow, gathering, injection, or disposal lines within a one mile radius of this location.

In the event production is established, plans for a gas flow line from the location to existing gathering lines or production lines shall be submitted to the appropriate agencies for approval.

5. LOCATION AND TYPE OF WATER SUPPLY

Water used to drill this well is to be hauled from a source in the SW 1/4 of Section ~~20~~ approximately 1.72 road miles to the southeast of the location site. ~~20~~ 20

5. LOCATION AND TYPE OF WATER SUPPLY (continued)

In the event that water is not available from this source, the operator will make the necessary arrangements to satisfy these needs.

6. SOURCE OF CONSTRUCTION MATERIALS

All construction materials for this location site and access road shall be borrow materials accumulated during construction of the location site and access road. No additional road gravels or pit lining material from other sources are anticipated at this time.

7. METHODS FOR HANDLING WASTE DISPOSAL

All garbage and trash that can be burned, shall be burned. All unburnable garbage and trash accumulated during development of the well shall be contained in the trash pit shown on the attached location layout sheet.

When drilling activities have been completed, the rig moved off the location and production facilities set up, all garbage and trash on the location site shall be cleaned up, deposited in the trash pit, and covered with and minimum 4' of cover.

All production waste such as cuttings, salts, chemicals, overflows of condensate, water, and drilling fluids shall be contained in the west cell of the reserve pit and upon completion of drilling activities, buried with a minimum of 4' of cover.

A portable chemical toilet will be supplied for human waste. (See end paragraph in Item No. 10.)

8. ANCILLARY FACILITIES

There are no ancillary facilities planned for at the present time and none foreseen in the near future.

9. WELL SITE LAYOUT

See attached location layout plat. The Bureau of Land Management District Manager or other appropriate agencies shall be notified before any construction begins on the proposed location site. When drilling activities commence, all work shall proceed in a neat and orderly sequence.

10. PLANS FOR RESTORATION OF SURFACE

As there is some topsoil in the area, all topsoil will be stripped and stockpiled prior to drilling activities on the well site only (see Item No. 9). When all production activities have been completed, the location site, access road, and flowline route will be reshaped as near as possible to the original contour, prior to construction, and the topsoil on the location only spread over the disturbed area. Any drainages re-routed during the construction and production activities shall be restored to their original line of flow.

10. PLANS FOR RESTORATION OF SURFACE (continued)

All additional wastes being accumulated during production activities and contained in the reserve pit and trash pit shall be buried with a minimum four feet of cover. The location site, access road, and flowline route shall be reseeded with a seed mixture recommended by the Bureau of Land Management District Manager, when the moisture content of the soil is adequate for germination.

Restoration activities shall begin within 90 days after completion of the well. Once completion activities have begun, they shall be completed within 30 days.

The lessee further covenants and agrees that all of said cleanup and restoration activities shall be done and performed in the best and most workmanlike manner and in strict conformity with the above mentioned Item No. 7 and No. 10.

11. OTHER INFORMATION

The topography of the General Area -

The location, Quintana Federal 18-1, lies on the north side of the Uinta Mountain Range and is located on the Bear River Drainage that flows in a northwesterly direction. The area is interlaced with numerous canyons and ridges which are quite steep by nature.

The soils of the area range from the sparse rich humis-sandy topsoils of the higher elevations to the sandy-clays along the river basins. The area is from the Quaternary Epoch.

The majority of the numerous streams and creeks in this area are of a perennial nature, with the greatest amount of stream flow occurring in the late spring during the spring runoff.

The annual percipitation averages range from 8" in the lower elevations to 16" in the upper regions of the area.

The flora of the area ranges from the open grass pastures along the river basin to the groves of Quacking Aspin, conifers, and open areas of sagebrush and grasses along the sidehills, ridges, and upper bench areas.

The fauna of the area consists predominately of the Mule Deer, coyotes, rabbits, and varieties of small ground squirrels and other types of rodents. The area is used by man for the primary purpose of grazing domesticated sheep and cattle.

The birds of the area are raptors, finches, ground sparrows, magpies, crows, and jays.

The location sets in the river bottom and is approximately 1/4 mile east of the Bear River. The immediate area surrounding the location is in an open and vegetated by sagebrush and grasses.

QUINTANA PETROLEUM CORP.
Fed. 18-1
Section 18, T3N, R10E, SLB&M

11. OTHER INFORMATION (continued)

The terrain in the immediate vicinity of the location slopes to the north-west and slopes through the location site at approximately a 1% grade.

There are no occupied dwellings or other facilities of this nature in the general area.

There are no visible archaeological, historical, or cultural sites within any reasonable proximity of the proposed location site. (See Topographic Map "B".)

12. LESSEE'S OR OPERATOR'S REPRESENTATIVE

Wayne Schneider
Box 3331
Houston, Texas 77001

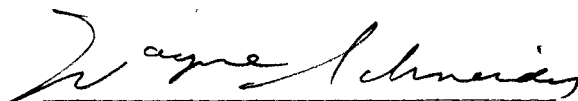
Tel: 713-651-8635/8600

13. CERTIFICATION

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Quintana Petroleum Corp. and its contractors and sub-contractors in conformity with this plan and terms and conditions under which it is approved.

3-9-77

DATE

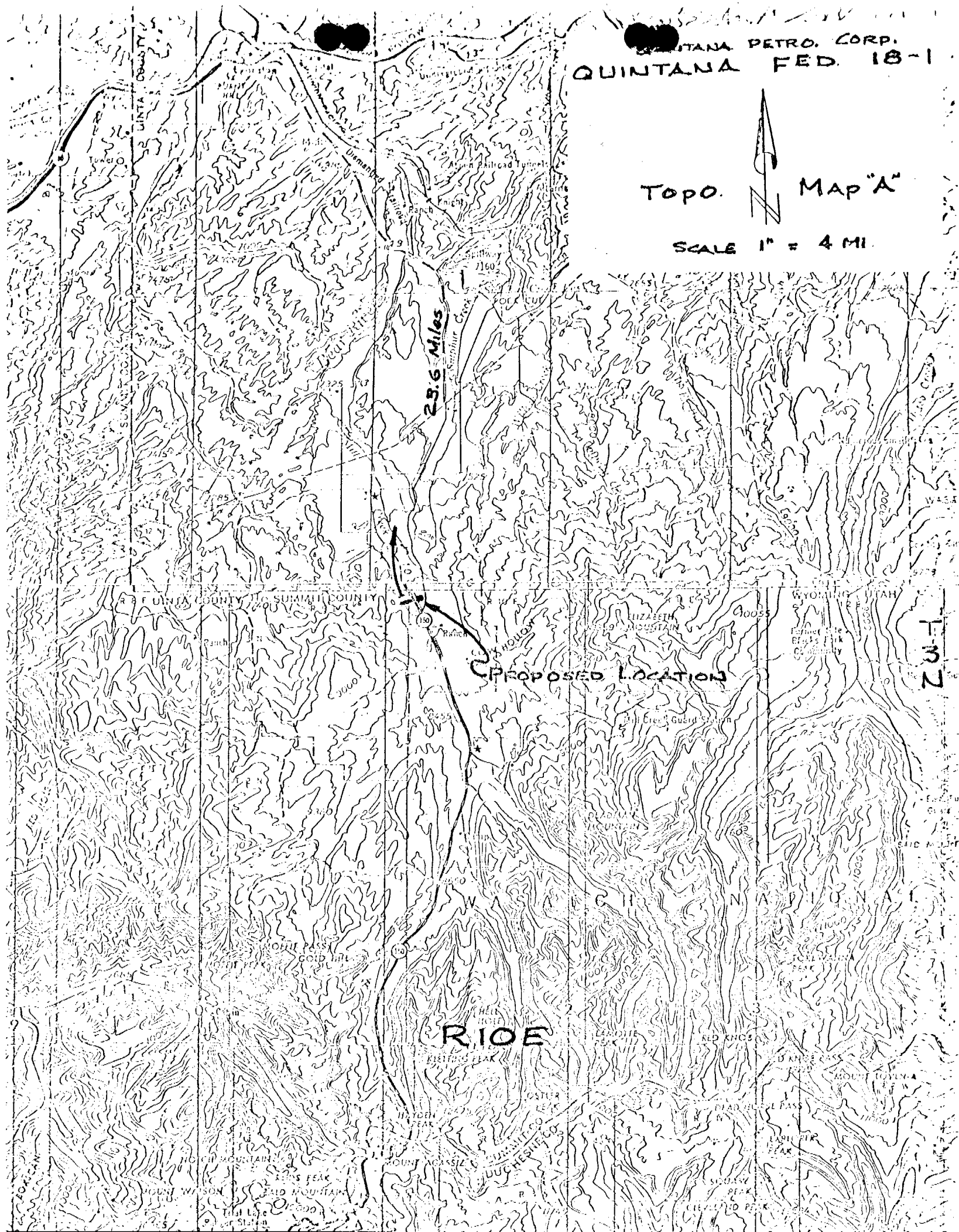


WAYNE SCHNEIDER

QUINTANA PETRO. CORP.
QUINTANA FED. 18-1

Topo. MAP "A"

SCALE 1" = 4 MI.



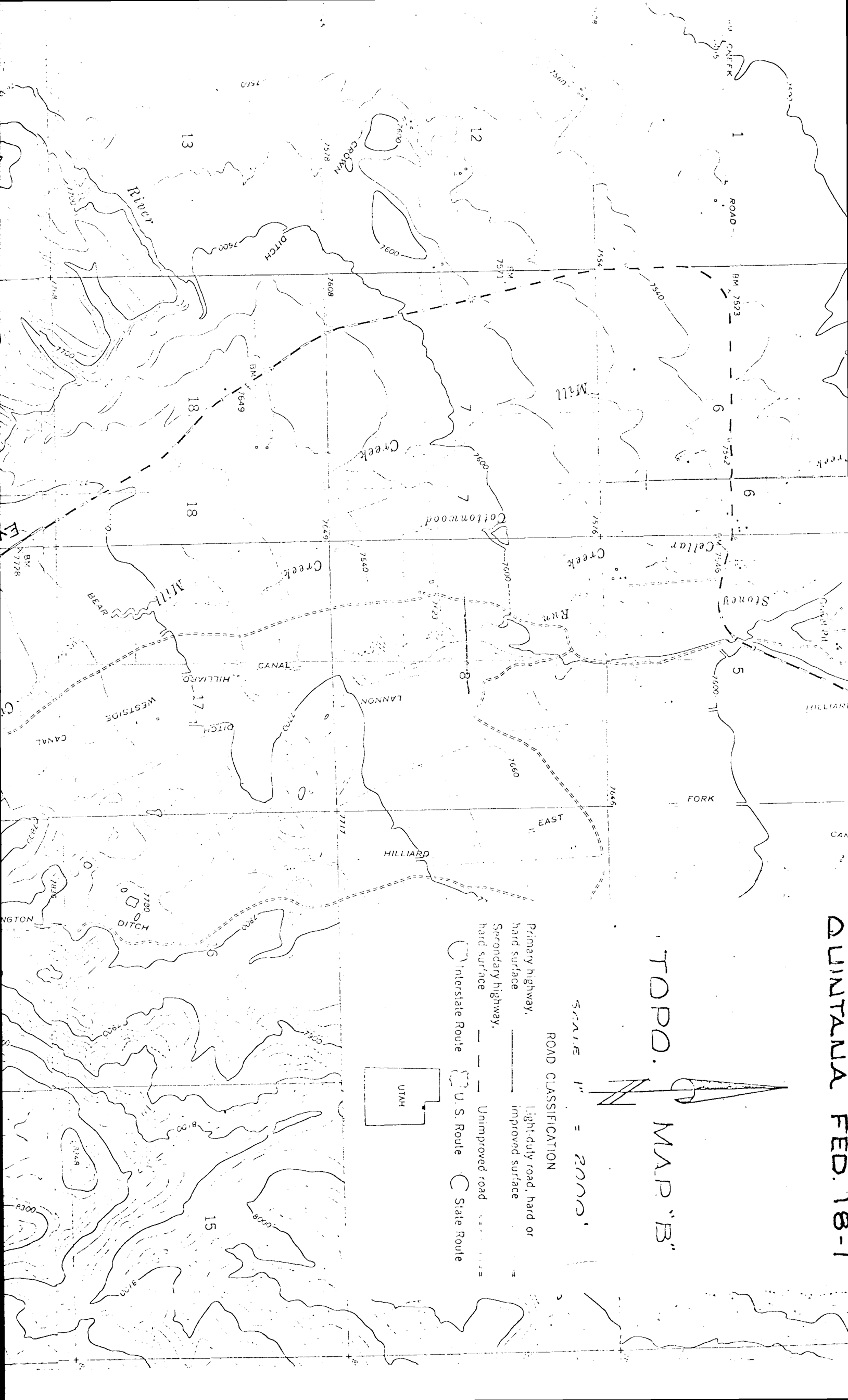
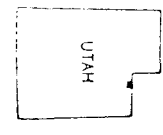
TOPO.

MAP "B"

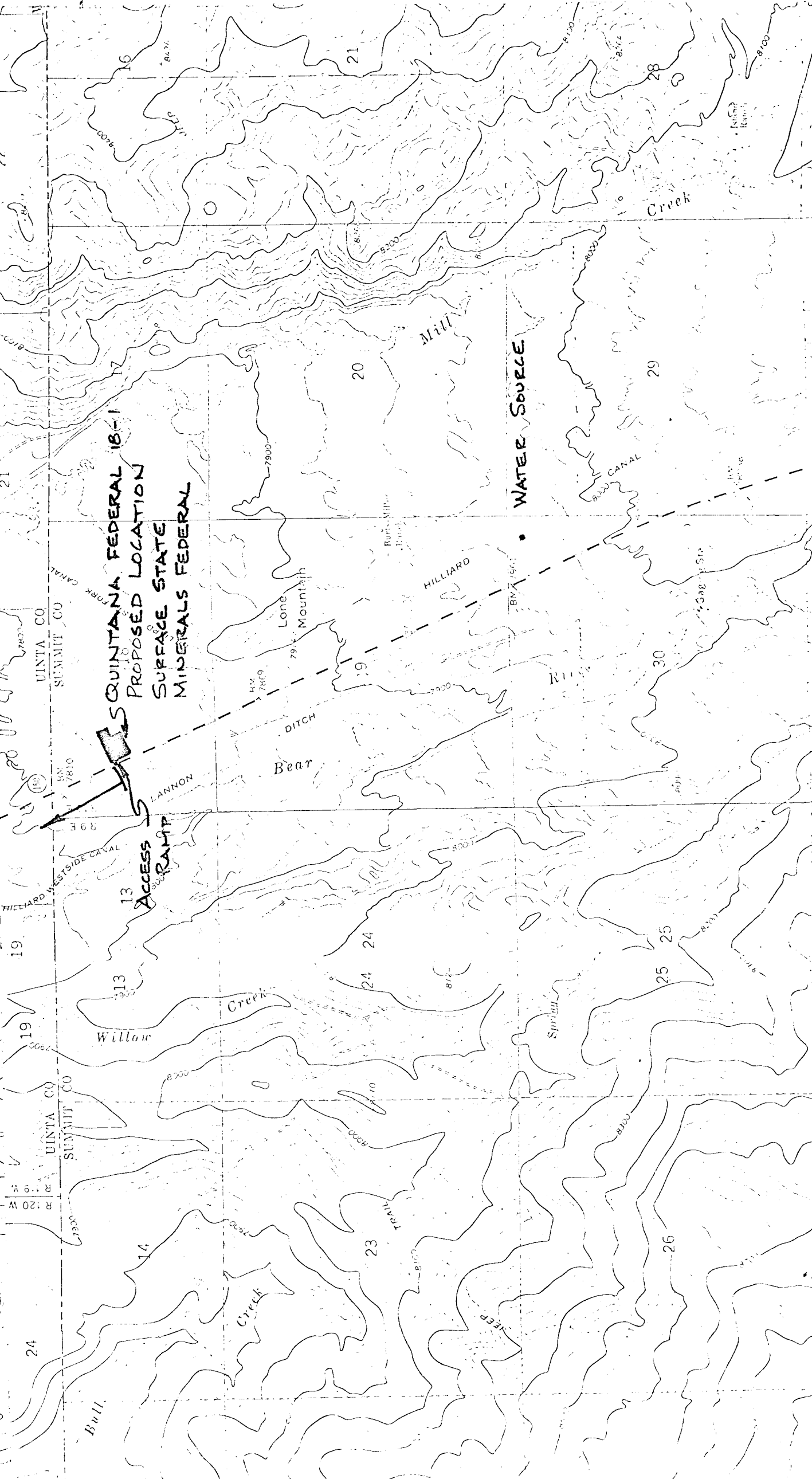
SCALE 1" = 2000'

ROAD CLASSIFICATION

- Primary highway, light-duty road, hard or improved surface
- Secondary highway, hard surface
- Unimproved road
- Interstate Route
- U. S. Route
- State Route



STON, Wyo.
23.6 MILES



SQUINTANA FEDERAL 18-1
PROPOSED LOCATION
SURFACE STATE
MINERALS FEDERAL

ACCESS
RAMP

WATER SOURCE

HILLIARD

Bear

Willow

Bull

Spring

Creek

CANAL

DITCH

TRAIL

JEEP

Long Mountain

Burke Mill

Gag St

VINTA CO

SUMMIT CO

HILLIARD WESTSIDE CANAL

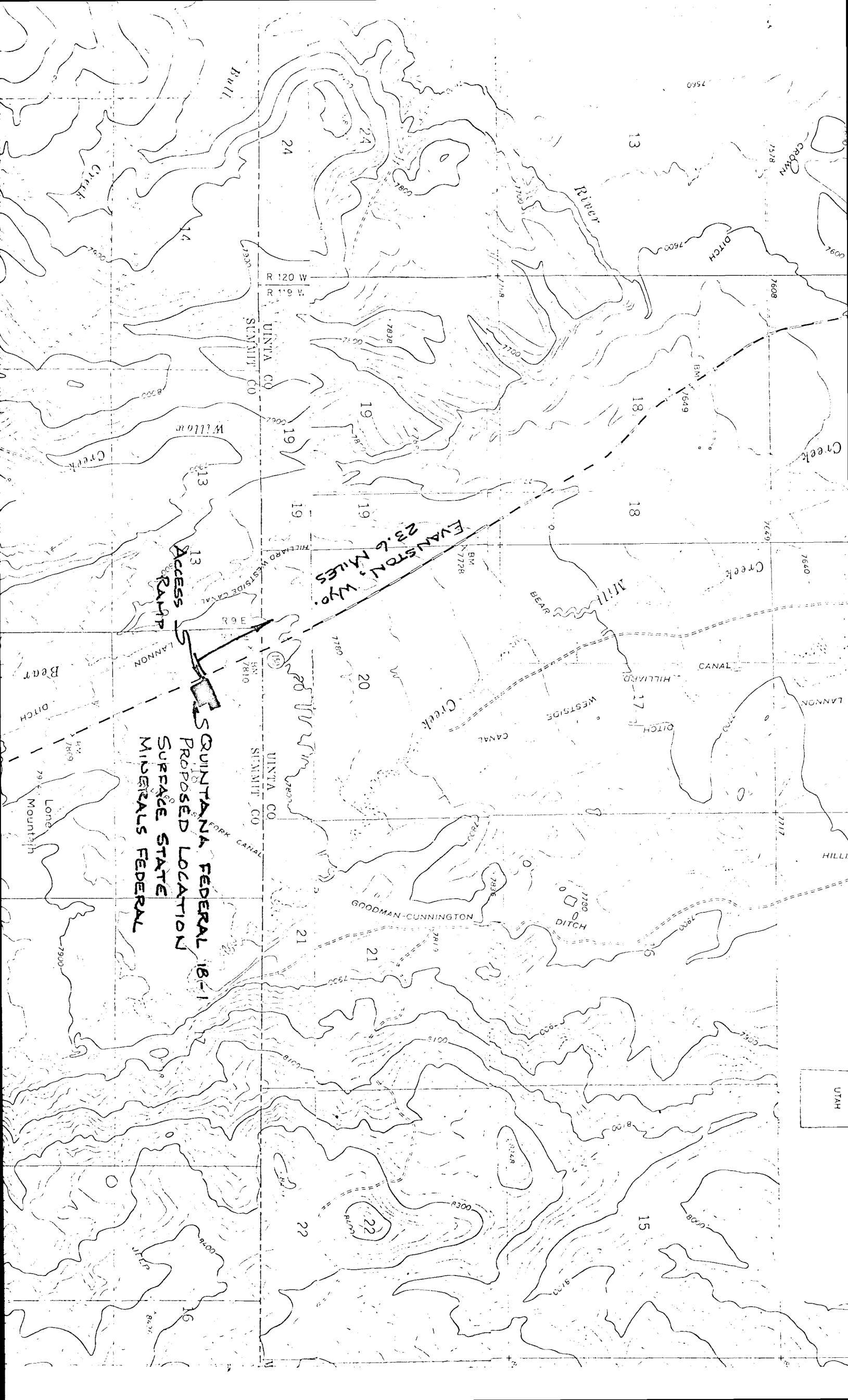
FORK CANAL

VINTA CO

SUMMIT CO

R 120 W

T 19 N



QUINTANA FEDERAL 18-1
PROPOSED LOCATION
SURFACE STATE
MINERALS FEDERAL

EVANSTON, WYO.
23.6 MILES

UTAH

DRILLING PROGNOSIS

QUINTANA - FEDERAL WELL No. 18-1
LONE MOUNTAIN PROSPECT
SUMMIT COUNTY, UTAH

AFE No. 37045

PURPOSE:

To drill a 2500' wildcat well to evaluate shallow oil and gas prospects.

LOCATION:

1758' FSL and 1190' FWL, Section 18, T3N, R10E, SLB&M.

BIT PROGRAM:

<u>Interval</u>	<u>Size</u>	<u>Type</u>
0' - 200'	12-1/4" - 17-1/2"	SEC H7SG
200' - 2500'	7-7/8"	STC DS, DG or equal

MUD PROGRAM:

<u>Interval</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Filtrate</u>	
0' - 200'	8.6	80 - 150	N/C	Water flows, boulders and lost circulation are possible problems. Maintain viscosity to keep hole clean. High viscosity (100+) to drill surface boulders.
200' - 2500'	8.6 - 9.0	40 - 60	N/C	

DEVIATION SURVEYS:

Not to exceed 500' apart.

TUBULAR PROGRAM:

Surface Casing:	125',	13-3/8",	48#,	H-40
Production Casing:	2500',	5-1/2",	14#,	H-40
Tubing:	2300',	2-3/8",	4.7#,	H-40

CEMENTING PROGRAM:

Surface: Cement to surface with 300% excess. Class "G" and 3% CaCl.
Do top job if no cement returns.

Production: Cement to surface with 100% excess as directed.

WELLHEAD EQUIPMENT:

Casinghead:	12",	2M#,	screw on with threaded outlets.
Tubinghead:	12",	2M# x 6",	3M# with threaded outlets.
Xmas Tree:	6",	2M# x 2",	5M#.

LOGGING PROGRAM:

At Total Depth: DIL, GR-CNL-DENS-CAL and Integrated Sonic, if required.

DRILLING PROCEDURE:

1. Drill 12-1/4" hole through surface boulder (estimated 100'), and make 50' of rat hole.
2. Open hole to 17-1/2" to 30' below base of boulders.
3. Run and cement 13-3/8" casing. Wait on cement.
4. Install casinghead, blowout preventers and manifold; and test to 500 psi.
5. Drill 7-7/8" hole to 2500'.
6. Log and evaluate (drillstem test?).
7. Complete or plug and abandon in accordance with U.S.G.S. (Salt Lake City) regulations.

STATE OF UTAH
DIVISION OF OIL, GAS, AND MINING

** FILE NOTATIONS **

Date: March 14-
Operator: Quintana Petroleum
Well No: Quintana Fed. 18-1
Location: Sec. 18 T. 3N R. 10E County: Summit

File Prepared ☒
Card Indexed ☒

Entered on N.I.D. ☒
Completion Sheet ☒

CHECKED BY:

Administrative Assistant AW

Remarks: No other wells in Sec. 18-

Petroleum Engineer Does not fit Rule C-3 -

Remarks: OK, 1st time only

Director 7

Remarks:

INCLUDE WITHIN APPROVAL LETTER:

Bond Required ☐

Survey Plat Required ☐

Order No. ☐

Surface Casing Change ☐
to ☐

Rule C-3(c), Topographic exception/company owns or controls acreage
within a 660' radius of proposed site ☒

O.K. Rule C-3 ☐

O.K. In ☐ Unit ☐

Other:

☒ Letter Written/Approved

QUINTANA PETROLEUM CORPORATION

601 JEFFERSON STREET-CULLEN CENTER

HOUSTON, TEXAS

March 17, 1977


PLEASE ADDRESS CORRESPONDENCE TO:

P. O. BOX 3331

HOUSTON, TEXAS 77001

RE: Application for Permit to Drill Federal Lease #U-2708
Quintana-Federal Well No. 18-1
Section 18, T3N, R10E, SLB&M

State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
1588 West North Temple
Salt Lake City, Utah 84116



Attention: Mr. Patrick L. Driscoll

Gentlemen:

The subject well has been staked 1240' FWL and 1758' FSL of Section 18. As discussed with Ms. Wilcox of your office, this location is irregular within its 40 acre drillsite unit.

As shown on the attached topographic map, the location is irregular due to existing roads. The stake cannot be moved west due to the proximity of State Highway 150, nor can the location be moved north due to the proximity of an unimproved road. The stake has been placed a sufficient distance from the two roads in order to allow an adequate area to build a location for the drilling rig.

Please let me know if you have further questions.

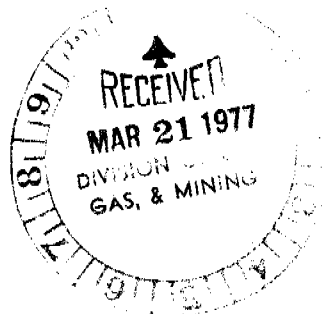
Yours truly,



W. A. Schneider

WAS/eh
attach.

cc: U.S. Dept of Interior
Geological Survey
125 South State Street
Salt Lake City, Utah 84138
Attn: Mr. E. W. Gynn



March 22, 1977

Quintana Petroleum Corporation
601 Jefferson Street
Cullen Center
Houston, Texas 77001

Re: Well No. Quintana-Fed. 18-1
Sec. 18, T. 3 N, R. 10 E,
Summit County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to well is hereby granted in accordance with Rule C-3(c), General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

PATRICK L. DRISCOLL - Chief Petroleum Engineer
HOME: 582-7247
OFFICE: 533-5771

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling.

The API number assigned to this well is 43-043-30046.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

CLEON B. FEIGHT
Director

SW

cc: U.S. Geological Survey

QUINTANA PETROLEUM CORPORATION

601 JEFFERSON STREET-CULLEN CENTER

HOUSTON, TEXAS

April 18, 1977

PLEASE ADDRESS CORRESPONDENCE TO:
P. O. BOX 3331
HOUSTON, TEXAS 77001

RE: Application for Permit to Drill
Quintana - Federal #18-1
Summit County, Utah
(API No. 43-043-30046)

Mr. E. W. Gynn
United States Department of Interior
Geological Survey
8416 Federal Building
125 South State Street
Salt Lake City, Utah



Dear Sir:

Enclosed is a Sundry Notice providing a 100' correction in the location for the subject well. The reason and circumstances of the location change are noted. The Sundry Notice also requests approval of a new proposed total depth of 3000' in order to evaluate properly the shallow hydrocarbon potential. Also enclosed for your information is a copy of Quintana's drilling prognosis for the subject well.

The captioned lease expires April 30, 1977; and your early consideration of our application is requested.

Yours truly,

A handwritten signature in cursive script, appearing to read "W. A. Schneider".

W. A. Schneider

WAS/eh
attach.

cc: State of Utah (w/attach.)
Division of Oil, Gas and Mining
1588 W. North Temple
Salt Lake City, Utah 84116
Attn: Patrick L. Driscoll

Senior & Senior, Attorneys (w/attach.)
10 Exchange Place
Salt Lake City, Utah 84111

A handwritten signature, possibly "E. W. Gynn", with the date "4/21/77" written below it.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well ☐ gas well ☐ other ☐ Proposed ☒
2. NAME OF OPERATOR
Quintana Petroleum Corporation
3. ADDRESS OF OPERATOR
P. O. Box 3331, Houston, Texas 77001
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space below.)
AT SURFACE: 1340' FWL and 1758' FSL
AT TOP PROD. INTERVAL: N/A
AT TOTAL DEPTH: Same as surface.

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>		<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>		<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>		<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>		<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>		<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>		<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>		<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>		<input type="checkbox"/>
(other) <u>Change Location and Proposed Total Depth</u>			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

The location of the subject well has been moved 100' east of the original stake in order not to be on the boundary line between Lot 5 and the NE/4 of the SW/4. The new location is shown above. The stake was moved on April 15, 1977, in the presence of Mr. Washington with the B.L.M. and Mr. Dennis with the U.S.G.S.

The proposed total depth on the original application was 2000'. Quintana now requests approval to re-permit the well to a total depth of 3000'. Review of recent drilling in the area indicates a depth of 3000' will be necessary to evaluate properly the hydrocarbon potential.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED W. A. Schneider TITLE Petroleum Engr. DATE April 18, 1977

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

APPROVED BY THE DIVISION OF
OIL, GAS, AND MININGDATE: 4/21/77BY: Amo Feight

*See Instructions on Reverse Side

5. LEASE
U-2708
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
N/A
7. UNIT AGREEMENT NAME
N/A
8. FARM OR LEASE NAME
Quintana - Federal
9. WELL NO.
18-1
10. FIELD OR WILDCAT NAME
Wildcat
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 18, T3N, R10E, SLB&M
12. COUNTY OR PARISH
Summit
13. STATE
Utah
14. API NO.
43-043-30046
15. ELEVATIONS (SHOW DF, KDB, AND WD)
KDB 7834'

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

ES

QUINTANA PETROLEUM CORPORATION

601 JEFFERSON STREET-CULLEN CENTER

HOUSTON, TEXAS

April 28, 1977

P

PLEASE ADDRESS CORRESPONDENCE TO:
P. O. BOX 3331
HOUSTON, TEXAS 77001

RE: Quintana - Federal #18-1
Summit County, Utah
(API No. 43-043-30046)

Mr. E. W. Guynn
U. S. Department of Interior
Geological Survey
8416 Federal Building
125 South State Street
Salt Lake City, Utah

Dear Sir:

Attached, in triplicate, is Form 9-331, reporting the spud date of the captioned well --- 6:00 p.m. 4-27-77, and the source of the drill water change to a privately owned irrigation ditch.

If you have any questions, please advise.

Yours truly,

W. A. Schneider

W. A. Schneider

By BZH

WAS/eh
attach.

cc: State of Utah (w/attach.)
Division of Oil, Gas and Mining
1588 W. North Temple
Salt Lake City, Utah 84116
Attn: Patrick L. Driscoll

Senior & Senior, Attorneys (w/attach.)
10 Exchange Place
Salt Lake City, Utah 84111

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☐ gas ☐ other ☒ Drilling Well

2. NAME OF OPERATOR
Quintana Petroleum Corporation

3. ADDRESS OF OPERATOR
P. O. Box 3331, Houston, Texas 77001

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1340' FWL and 1758' FSL
AT TOP PROD. INTERVAL: N/A
AT TOTAL DEPTH: Same as surface

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

5. LEASE
U-2708

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
N/A

7. UNIT AGREEMENT NAME
N/A

8. FARM OR LEASE NAME
Quintana - Federal

9. WELL NO.
18-1

10. FIELD OR WILDCAT NAME
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 18, T3N, R10E, SLB&M

12. COUNTY OR PARISH
Summit

13. STATE
Utah

14. API NO.
43-043-30046

15. ELEVATIONS (SHOW DF, KDB, AND WD)
KDB 7834'

REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF	<input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>	<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>	<input type="checkbox"/>

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

(other) Report spud date and Change in Water Source (12 Point Surface Use Plan)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

As reported verbally on April 28, 1977, the subject well was spudded at 6:00 p.m. on April 27, 1977. An affidavit to this effect is being prepared and will be submitted to your office.

In reference to the 12 Point Surface Use Plan for this well, the location of the drill water supply has been changed to a privately owned irrigation ditch approximately 200 yards north of the drill site. Consideration has been provided to the owners of this water source in return for Quintana's use of the water.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED W. A. Schneider TITLE Petroleum Engr. DATE April 28, 1977

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____
CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY THE DIVISION OF
OIL, GAS, AND MINING

DATE: _____

*See Instructions on Reverse Side

BY: _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form approved.
Budget Bureau No. 42-R356.5.

LAND OFFICE _____
LEASE NUMBER U-2708
UNIT None

LESSEE'S MONTHLY REPORT OF OPERATIONS

State UTAH County SUMMIT Field WILDCAT

The following is a correct report of operations and production (including drilling and producing wells) for the month of APRIL, 19 77,

Agent's address P. O. Box 3331 Company Quintana Petroleum Corporation
Houston, Texas 77001 Signed [Signature]

Phone 713 651-8600 Agent's title Petroleum Engineer

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL No.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
18, NE SW 3N	10E	18-1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Drilling operations commenced at 6:00 p.m. 4-27-77. At midnight on 4-30-77 drilling operations were in progress at a depth of 76'.

NOTE.—There were N/A runs or sales of oil; N/A M cu. ft. of gas sold;
N/A runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

QUINTANA PETROLEUM CORPORATION

601 JEFFERSON STREET-CULLEN CENTER

HOUSTON, TEXAS

PLEASE ADDRESS CORRESPONDENCE TO:

P. O. BOX 3331

HOUSTON, TEXAS 77001

May 2, 1977

RE: Quintana - Federal #18-1
Summit County, Utah
(API No. 43-043-30046)

Mr. E. W. Gynn
U. S. Department of Interior
Geological Survey
8416 Federal Building
125 South State Street
Salt Lake City, Utah



Dear Sir:

Attached, in duplicate, is Form 9-329 summarizing the drilling operations for the month of April for the subject well. As noted, drilling operations were in progress at midnight of April 30, 1977, the expiration date of our lease.

Yours truly,

W. A. Schneider

WAS/eh

attach.

State of Utah (w/attach.)

Division of Oil, Gas and Mining

1588 W. North Temple

Salt Lake City, Utah 84116

Attn: Patrick L. Driscoll

CIRCULATE TO:

DIRECTOR _____ ☐
PETROLEUM ENGINEER _____ ☐
MINE COORDINATOR _____ ☐
ADMINISTRATIVE ASSISTANT _____ ☐
ALL _____ ☐

RETURN TO Kathleen
FOR FILING

May 12, 1977

Memo To File:

Re: Quintana Petroleum
Quintana 18-1
Sec. 18, T. 3 N., R. 10 E.
Summit County

Verbal approval was given to Mr. Graham Cambell to plug and abandon the above well on May 9, 1977. The pertinent information is as follows:

13 5/8 set @	180'
Wasatch	85'
Clayaceous	2,125'
Total Depth	2,289'

Plugs will be set as follows:

35 sacks	2,200 - 2,289'
65 sacks	2,000 - 2,130'
42 sacks	144 - 194'

A regulation dry hole marker will be erected and the location cleaned up.

PATRICK L. DRISCOLL
CHIEF PETROLEUM ENGINEER

cc: U.S.G.S.

PLD/ksw

Lease U-270

Well No. & Location 18-1 SEC. 18 T3N R10E

Summit County UTAH

ENVIRONMENTAL IMPACT ANALYSIS - ATTACHMENT 2-B

1. Proposed Action

PROPOSES TO DRILL AN OIL AND

GAS TEST WELL WITH ROTARY TOOLS TO ABOUT 2000 FT. TD. 2) TO CONSTRUCT A

DRILL PAD 200 FT. X 200 FT. AND A RESERVE PIT 40 FT. X 40 FT.

3) TO CONSTRUCT _____ FT. X _____ MILES ACCESS ROAD AND UPGRADE 300 FT.

X _____ MILES ACCESS ROAD FROM AN EXISTING AND IMPROVED ROAD.

2. Location and Natural Setting (existing environmental situation)

REFER to ITEM # 11 OF THE 13 Point SURFACE USE PLAN

MOVED LOCATION ^{100'} ~~50'~~ TO THE EAST TO PREVENT
disturbance OF SMALL CREEK AND MINIMIZE GROUND
CUTS AND FILLS

BLM. REQUESTED they be notified before
construction starts so they can be present.

Burn pit will be dug 10' X 10' X 16' AND
ENCLOSED with MESH WIRE.

3. Effects on Environment by Proposed Action (potential impact)

1) EXHAUST EMISSIONS FROM THE DRILLING RIG POWER UN AND SUPPORT TRAFFIC ENGINES WOULD ADD MINOR POLLUTION TO THE ATMOSPHERE IN THE LOCAL VICINITY.

2) MINOR INDUCED AND ACCELERATED EROSION POTENTIAL DUE TO SURFACE DISTURBANCE AND SUPPORT TRAFFIC USE.

3) MINOR VISUAL IMPACTS FOR A SHORT TERM DUE TO OPERATIONAL EQUIPMENT AND SURFACE DISTURBANCE.

4) TEMPORARY DISTURBANCE OF WILDLIFE AND LIVESTOCK.

5) MINOR DISTRACTION FROM AESTHETICS FOR SHORT TERM.

6)

4. Alternatives to the Proposed Action

1) NOT APPROVING THE PROPOSED PERMIT -- THE OIL AND GAS LEASE GRANTS THE LESSEE EXCLUSIVE RIGHT TO DRILL FOR, MINE, EXTRACT, REMOVE AND DISPOSE OF ALL OIL AND GAS DEPOSITS.

2) DENY THE PROPOSED PERMIT AND SUGGEST AN ALTERNATE LOCATION TO MINIMIZE ENVIRONMENTAL IMPACTS.

3) No ALTERNATE LOCATION could be FOUND
to justify this ACTION

5: Adverse Environmental Effects Which Cannot Be Avoided

1) MINOR AIR POLLUTION DUE TO EXHAUST EMISSIONS FROM RIG ENGINES AND SUPPORT TRAFFIC ENGINES.

2) MINOR INDUCED AND ACCELERATED EROSION POTENTIAL DUE TO SURFACE DISTURBANCE AND SUPPORT TRAFFIC USE.

3) MINOR AND TEMPORARY DISTURBANCE OF WILDLIFE.

4) TEMPORARY DISTURBANCE OF LIVESTOCK.

5) MINOR AND SHORT-TERM VISUAL IMPACTS.

6)

6. Determination

(This requested action ~~(does)~~ (does not) constitute a major Federal action significantly affecting the environment in the sense of NEPA, Section 102(2) (c).

Date Inspected 4-15-77

Inspector *[Signature]*

[Signature]
U.S. Geological Survey,
Conservation Division
Salt Lake City District
Salt Lake City, Utah

QUINTANA PETROLEUM CORPORATION

601 JEFFERSON STREET-CULLEN CENTER

HOUSTON, TEXAS

PLEASE ADDRESS CORRESPONDENCE TO:

P. O. BOX 3331

HOUSTON, TEXAS 77001

W E L L S U M M A R Y

Quintana Federal 18-1
Summit County

4-25-77

Built location. Set 14' of 24" conductor. Will MI Roden Rig No. 2 tomorrow.

Quintana Petroleum Corporation
Quintana Federal 18-1
Summit County

4-26-77

Purpose: Drill 2500' wildcat to evaluate shallow prospects.

Location: 1758' FSL & 1340' FWL, Section 18, T3N, R10E, SLB&M, Summit County, Utah

Note: Federal Lease U-2708 Expires 4-30-77

MI Rig.

Quintana Petroleum Corporation
Quintana Federal 18-1
Summit County

4-27-77

RU. Mixing mud.

Quintana Federal 18-1
Summit County

4-28-77

TD 46' Boulders MW 8.8 Visc 96 WL 16
Fin. RU and mixing mud. Spudded well @ 6:00 p.m. 4-27-77. Drilling boulders.

Days on Location: 1

Quintana Federal 18-1
Summit County

4-29-77

TD 70'. Boulders MW 9.4 Visc 98 WL 12
Drilling boulders. Now waiting on parts to repair rotary clutch.

Quintana Federal 18-1
Summit County

5-2-77

TD 208' Clay & SD MW:9.8, Visc. 86, WL 6.2
Repaired rotary clutch & transmission housing. drilled 12½" hole to 208'
PU 17½" H.O. & opened hole to 202'. Making wider trip. Note: drld. out of heavy boulders @ 76'.

Quintana Federal 18-1

Summit County

TD 208' MW: 9.3

5-3-77
Fin. Wiper trip. C&C. POOH. Ran 4 jts. 13-3/8, H-40, 48# Csg. Set at 174'. Cmt. w/400 sx "G", 3% cacl. Had 85 ft.³ of cmt. Returns. WOC. Back off landing Jt. Now NU BOP's.

Quintana - Federal 18-1

Summit County

5-4-77 TD 232' clay and sand. Mud 8.5, Visc. 38, WL 30, Ph 12.4 .
Finished nipping up blowout preventers. Tested casing and BOPs to 750 psi.
Drilled cement, plugs, float and shoe. Made trip. Now drilling at 12'/hour.

Quintana - Federal #18-1

Summit County

5-5-77 TD 978' clay. Mud 8.6, Visc. 50. Drilled and surveyed. Now TNB.
Will rig up mud logger today.

QUINTANA - FEDERAL #18-1

Summit County

5-6-77
TD 1567' clay and sand. Mud 9.5 Vis. 39 WL 24
Finished bit trip. Drld. tripped for plugged bit. Drld. & Surveyed
@ 36'/hr. No shows.

Quintana - Federal #18-1

Summit County

5-9-77 TD 2268' black shale. Mud 9.0, Visc. 39, WL 9.
Drilled to 1628'. TNB. Drilled to 1881'. TNB. Drilled to 2112', TNB.
Control drilled to 2289'. Deviation: 4-1/4°. Now circulating out.
Top Cretaceous 2125'. No shows.

Quintana-Federal #18-1

Summit County

5-10-77 TD 2289' shale. Mud 9.1, Visc. 40, WL 10.4. Circulated out. Pulled out of hole. Rigged up Schlumberger. Ran DIL 1929'-177'. Made conditioning trip. Ran DIL 2286' (DTD = 2289') to 1929'. Ran Dipmeter 2286'-177'. Rigged down Schlumberger. Now preparing to plug and abandon.

Quintana - Federal #18-1

Summit County

5-11-77 TD 2289' shale. Tripped in hole and placed plugs 2289'-2000'; 2130'-2000'; 180'-130' and 15' at surface. Cleaned pits. Rigged down. Now loading out rig. FR. Plugged and abandoned 5-11-77. FINAL REPORT.

QUINTANA PETROLEUM CORPORATION

601 JEFFERSON STREET-CULLEN CENTER

HOUSTON, TEXAS

PLEASE ADDRESS CORRESPONDENCE TO:

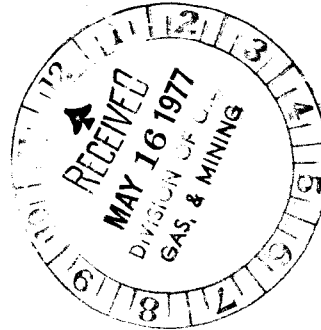
P. O. BOX 3331

HOUSTON, TEXAS 77001

May 11, 1977

RE: Quintana - Federal #18-1
Summit County, Utah
API 43-043-30046

Mr. E. W. Guynn
United States Geological Survey
Department of the Interior
125 South State Street
Salt Lake City, Utah 84138



Dear Sir:

In connection with the abandonment of the captioned well, enclosed in triplicate are the following:

1. Form 9-331 requesting approval to plug and abandon.
2. Form 9-331 reporting actual plugging and abandoning.
3. Summary of drilling operations, Form 9-329.
4. Dual Induction- Laterolog.
5. Form 9-330, Well Completion Report.
6. Summary of Daily Drilling Operations.

In compliance with the seeding requirements set forth by your office, restoration of the drill site will be completed in the Fall of 1977. Upon completion of restoration, Quintana will request a site inspection by submitting Form 9-331.

Yours truly,

A handwritten signature in cursive script, appearing to read "W. A. Schneider".

W. A. Schneider

WAS/eh
attach.

cc: State of Utah
Dept. of Natural Resources
1588 W. North Temple
Salt Lake City, Utah

Attn: Mr. Patrick L. Driscoll

*with attachment except log (Item 4)
Log will follow.*

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other in-
structions on
reverse side)Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input checked="" type="checkbox"/> Other _____				5. LEASE DESIGNATION AND SERIAL NO. U-2708	
b. TYPE OF COMPLETION: NEW WELL <input type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> Other <u>P&A</u>				6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A	
2. NAME OF OPERATOR Quintana Petroleum Corporation				7. UNIT AGREEMENT NAME N/A	
3. ADDRESS OF OPERATOR P. O. Box 3331, Houston, Texas 77001				8. FARM OR LEASE NAME Quintana - Federal	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements) At surface 1340' FWL and 1758' FSL At top prod. interval reported below N/A At total depth Same as surface location				9. WELL NO. 18-1	
14. PERMIT NO. 43-043-30046				DATE ISSUED 3-22-77	
15. DATE SPUDDED 4-27-77		16. DATE T.D. REACHED 5-9-77		17. DATE COMPL. (Ready to prod.) N/A	
18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* RKB = 7833'/MSL		19. ELEV. CASINGHEAD 7827'		10. FIELD AND POOL, OR WILDCAT Wildcat	
20. TOTAL DEPTH, MD & TVD 2289'		21. PLUG, BACK T.D., MD & TVD P & A		22. IF MULTIPLE COMPL., HOW MANY* N/A	
23. INTERVALS DRILLED BY →		24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* Plugged and Abandoned		25. WAS DIRECTIONAL SURVEY MADE Straight hole only.	
26. TYPE ELECTRIC AND OTHER LOGS RUN Dual Induction and Dipmeter				27. WAS WELL CORED No	
28. CASING RECORD (Report all strings set in well)					
CASING SIZE 13-3/8"		WEIGHT, LB./FT. 48#		DEPTH SET (MD) 174'	
HOLE SIZE 17-1/2"		CEMENTING RECORD 400 sacks to surface		AMOUNT PULLED None	
29. LINER RECORD					
SIZE		TOP (MD)		BOTTOM (MD)	
SACKS CEMENT*		SCREEN (MD)		TUBING RECORD	
SIZE		DEPTH SET (MD)		PACKER SET (MD)	
31. PERFORATION RECORD (Interval, size and number) N/A					
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.					
DEPTH INTERVAL (MD)		AMOUNT AND KIND OF MATERIAL USED			
N/A		Provided on Form 9-331.			
P&A plugs					
33.* PRODUCTION					
DATE FIRST PRODUCTION N/A		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)			WELL STATUS (Producing or shut-in)
DATE OF TEST		HOURS TESTED		CHOKE SIZE	
PROD'N. FOR TEST PERIOD		OIL—BBL.		GAS—MCF.	
WATER—BBL.		GAS-OIL RATIO			
FLOW. TUBING PRESS.		CASING PRESSURE		CALCULATED 24-HOUR RATE	
OIL—BBL.		GAS—MCF.		WATER—BBL.	
OIL GRAVITY-API (CORR.)					
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)					TEST WITNESSED BY
35. LIST OF ATTACHMENTS Dual Induction Laterolog. Geologist's report to be submitted when available.					
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records					
SIGNED W. A. Schneider		TITLE Petroleum Engineer		DATE May 11, 1977	

* (See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

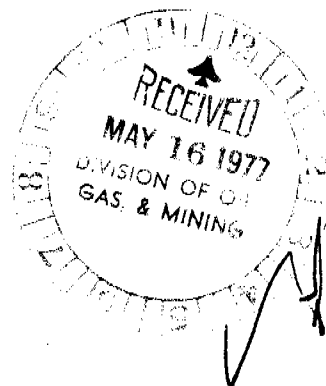
Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. **Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES				38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
Wasatch	86'	2125'	Intermixed sand and shale. No shows.	Quaternary Alluvium	0'	0'
Cretaceous	2125'	TD	Shale. No shows.	Wasatch	86'	86'
				Cretaceous	2125'	2125'

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
1588 West North Temple
Salt Lake City, Utah 84116



REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name and Number Quintana - Federal No. 18-1 (API #43-043-30046)

Operator Quintana Petroleum Corporation

Address P. O. Box 3331, Houston, Texas 77001

Contractor Roden Drilling Company

Address P. O. Box 2895, Casper, Wyoming 82602

Location NE 1/4, SW 1/4, Sec. 18; T. 3 N; R. 10 E; Summit County
S W

Water Sands:

<u>Depth:</u>		<u>Volume:</u>	<u>Quality:</u>
From-	To-	Flow Rate or Head -	Fresh or Salty -

1. This well had no hydrocarbon shows, no water flows and no lost circulation zones.
2. _____
3. _____
4. _____
5. _____

(Continue on Reverse Side if Necessary)

Formation Tops:

- NOTE: (a) Upon diminishing supply of forms, please inform this office.
(b) Report on this form as provided for in Rule C-20, General Rules And Regulations and Rules of Practice and Procedure.
(c) If a water quality analysis has been made of the above reported zone, please forward a copy along with this form.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☐ well ☐ gas ☐ well ☐ other ☐ dry hole RECEIVED
MAY 16 1977
2. NAME OF OPERATOR
Quintana Petroleum Corporation
3. ADDRESS OF OPERATOR
P. O. Box 3331, Houston, Texas 77001
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1340' FWL and 1758' FSL
AT TOP PROD. INTERVAL: N/A
AT TOTAL DEPTH: Same as surface
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

5. LEASE
U-2708
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
N/A
7. UNIT AGREEMENT NAME
N/A
8. FARM OR LEASE NAME
Quintana - Federal
9. WELL NO.
18-1
10. FIELD OR WILDCAT NAME
Wildcat
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 18, T3N, R10E, SLB&M
12. COUNTY OR PARISH
Summit
13. STATE
Utah
14. API NO.
43-043-30046
15. ELEVATIONS (SHOW DF, KDB, AND WD)
KDB 7834'

- | REQUEST FOR APPROVAL TO: | | SUBSEQUENT REPORT OF: | |
|--------------------------|-------------------------------------|-----------------------|--------------------------|
| TEST WATER SHUT-OFF | <input type="checkbox"/> | | <input type="checkbox"/> |
| FRACTURE TREAT | <input type="checkbox"/> | | <input type="checkbox"/> |
| SHOOT OR ACIDIZE | <input type="checkbox"/> | | <input type="checkbox"/> |
| REPAIR WELL | <input type="checkbox"/> | | <input type="checkbox"/> |
| PULL OR ALTER CASING | <input type="checkbox"/> | | <input type="checkbox"/> |
| MULTIPLE COMPLETE | <input type="checkbox"/> | | <input type="checkbox"/> |
| CHANGE ZONES | <input type="checkbox"/> | | <input type="checkbox"/> |
| ABANDON* | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| (other) | | | <input type="checkbox"/> |

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

APPROVED BY THE DIVISION OF
OIL, GAS, AND MINING
DATE: May 16, 1977

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Subject well was drilled to TD of 2289'. 13-3/8" csg was set at 174' and cemented to surface with 400 sx cmt. A 7-7/8" hole was drilled from base of the 13-3/8" csg to TD. The base of Tertiary and top of Cretaceous were encountered at 2125'. The well had no hydrocarbon shows, no water flows and no lost circulation zones. At TD a Dual Induction Lateral Log and Dipmeter were run. Quintana requests approval to P&A the subject well as follows:

- Place a 35 sack cmt plug through the drillpipe from 2289' back to 2200'.
- Place a 65 sack cmt plug through the drillpipe from 2130' back to 2000'.
- Place a cmt plug from 180' back to 130' in order to cmt the csg seat.
- Place a 10 sack cmt plug from 15' below ground level back to surface.
- Weld an iron plate across the 13-3/8" csg.
- Leave 9ppg mud in hole between all cmt plugs.

Subsurface Safety Valve: Manu. and Type

NOTE: The above requested procedure was approved verbally by the U.S.G.S. on 5-9-77. Set @ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED W. A. Schneider TITLE Petroleum Engr. DATE May 10, 1977

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form approved.
Budget Bureau No. 42-R356.5.

LAND OFFICE _____
LEASE NUMBER U-2708
UNIT None

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Summit Field Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of May, 1977.

Agent's address P. O. Box 3331 Company Quintana Petroleum Corporation
Houston, Texas 77001 Signed [Signature]

Phone 713 651-8600 Agent's title Petroleum Engineer

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
18, NE SW 3N	10E	18-1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Drilling in progress at 76' on 5-1-77. Set 13-3/8" csg at 174' on 5-2-77. Reached TD of 2289' on 5-9-77. Logged and plugged and abandoned on 5-10-77.

NOTE.—There were N/A runs or sales of oil; N/A M cu. ft. of gas sold;

N/A runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.